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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/463,958	01/17/2002	Ake Lignell	REF/LIGNELL/551	6995
7590 03/05/2004			EXAMINER	
Bacon & Thomas			COE, SUSAN D	
Fourth floor 625 Slater Lane		ART UNIT	PAPER NUMBER	
Alexandria, VA 22314-1176			1654	* (3)
	•		DATE MAILED: 03/05/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·		Application No.	Applicant(s)
Office Action Summary		09/463,958	LIGNELL, AKE
		Examiner	Art Unit
The MAILING DATE of this		Susan Coe	ith the correspondence address
Period for Reply	соптитскиот арре	ars on the cover sheet w	nul life correspondence address
A SHORTENED STATUTORY PE THE MAILING DATE OF THIS CO - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date - If the period for reply specified above is less to - If NO period for reply is specified above, the reply reply received by the Office later than the earned patent term adjustment. See 37 CFR	DMMUNICATION. e provisions of 37 CFR 1.136 of this communication. han thirty (30) days, a reply v maximum statutory period will iod for reply will, by statute, c ee months after the mailing of	6(a). In no event, however, may a within the statutory minimum of thi I apply and will expire SIX (6) MO ause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status			
1) Responsive to communicati	on(s) filed on 12 De	<u>cember 2003</u> .	
2a) This action is FINAL .	2b)⊠ This ε	action is non-final.	
3) Since this application is in c	ondition for allowand	ce except for formal mat	tters, prosecution as to the merits is
closed in accordance with the	ne practice under <i>Ex</i>	parte Quayle, 1935 C.I	O. 11, 453 O.G. 213.
Disposition of Claims			
4)⊠ Claim(s) <u>8-25</u> is/are pending	g in the application.		
4a) Of the above claim(s)		n from consideration.	
5) Claim(s) is/are allow	ed.		
6)⊠ Claim(s) <u>8-25</u> is/are rejected	d.		
7) Claim(s) is/are objec	ted to.		
8) Claim(s) are subject	to restriction and/or	election requirement.	*
Application Papers			
9) The specification is objected	to by the Examiner.		
10) The drawing(s) filed on	_ is/are: a)∏ acce _l	pted or b)⊡ objected to	by the Examiner.
Applicant may not request that	any objection to the di	rawing(s) be held in abeya	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s)	including the correction	on is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is ob	jected to by the Exa	miner. Note the attache	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of	a claim for foreign p	priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)	one of:		
1. Certified copies of the	priority documents	have been received.	
2. Certified copies of the	e priority documents	have been received in A	Application No
3. Copies of the certified	copies of the priorit	ty documents have beer	n received in this National Stage
application from the l	nternational Bureau	(PCT Rule 17.2(a)).	
* See the attached detailed Off	fice action for a list o	f the certified copies no	t received.
Attachment(s)			
1) Notice of References Cited (PTO-892)		4) Interview	Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing	Review (PTO-948)	Paper No	(s)/Mail Date
3) Information Disclosure Statement(s) (PT Paper No(s)/Mail Date	O-1449 or PTO/SB/08)	5)	Informal Patent Application (PTO-152)

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 12, 2003 has been entered.
- 2. Claims 17-25 have been added.
- 3. Claims 8-25 are currently pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 8-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 98/37874 in view of US Pat. No. 5,229,418.

WO '874 teaches a method of treating or preventing inflammation of the gastrointestinal tract caused by *Helicobacter pylori* infection using astaxanthin (see page 2, lines 20-29). WO '874 teaches using astaxanthin esterified with fatty acids isolated from *Haemactococcus* sp. The astaxanthin is administered with carbohydrates and antioxidants (see page 3). The astaxanthin is administered is 0.01 to 10 mg per kg body weight (see page 4, lines 13-16).

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The reference does not specifically teach that treating the *H. pylori* infection also treats or prevents indigestion or treats the symptoms of indigestion. However, US '418 teaches that *H. pylori* infections also cause indigestion (see column 1, lines 33-37). Therefore, a person of ordinary skill in the art would reasonably expect that the method of treating or preventing gastritis caused by *H. pylori* infections using astaxanthin taught by WO '874 would also be useful in treating or preventing indigestion associated with *H. pylori* infections. Thus, based on this reasonable expectation of success, an artisan or ordinary skill would be motivated to use the astaxathin taught by WO '874 to treat or prevent indigestion and to treat the symptoms caused by the indigestion itself.

5. No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan Coe whose telephone number is (571) 272-0963. The examiner can normally be reached on Monday to Thursday from 8:00 to 5:30 and on alternating Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback, can be reached on (571) 272-0961. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Susan Coe, Examiner

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March 1, 2004